

Table B-1. Survey of Industrial Research and Development—number of companies in the target population and selected for the sample, by industry and size of company: 2000

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Industry and size of company	NAICS codes	Companies in target population	Companies selected for the sample			Companies with reported or imputed R&D expenditures ³		Companies that reported no R&D expenditures ⁴	Other companies ⁵
			Total	Noncertainties ¹	Certainties ²	Greater than or equal to \$5 million	Less than \$5 million		
Distribution by industry:									
All industries.....	21–23, 31–33, 42, 44–81	1,912,456	25,002	21,975	3,027	1,888	1,695	17,741	3,678
Manufacturing.....	31–33	177,312	4,825	3,395	1,430	970	1,010	2,173	673
Food.....	311	2,502	131	76	55	34	42	42	13
Beverage and tobacco products.....	312	278	11	7	4	4	2	5	0
Textiles, apparel, and leather.....	313–16	3,105	244	187	57	11	66	115	52
Wood products.....	321	1,763	111	79	32	3	20	72	16
Paper, printing and support activities.....	322, 323	3,455	106	76	30	27	10	58	11
Petroleum and coal products.....	324	147	16	7	9	8	4	3	1
Chemicals.....	325	1,380	218	76	142	139	40	16	23
Basic chemicals.....	3251	221	62	15	47	46	12	2	2
Resin, synthetic rubber, fibers, and filament.....	3252	102	16	2	14	14	1	1	0
Pharmaceuticals and medicines.....	3254	294	51	8	43	41	4	1	5
Other chemicals.....	325 (minus 3251–52, 3254)	763	89	51	38	38	23	12	16
Plastics and rubber products.....	326	2,773	328	223	105	47	118	103	60
Nonmetallic mineral products.....	327	1,263	131	89	42	17	37	61	16
Primary metals.....	331	1,088	104	61	43	21	36	36	11
Fabricated metal products.....	332	5,627	337	249	88	37	128	137	35
Machinery.....	333	3,561	262	147	115	114	63	56	29
Computer and electronic products.....	334	2,613	530	183	347	300	85	84	61
Computers and peripheral equipment.....	3341	230	70	33	37	43	9	9	9
Communications equipment.....	3342	411	79	21	58	60	7	5	7
Semiconductor and other electronic components.....	3344	1,126	114	24	90	85	12	9	8
Navigational, measuring, electromedical, and control instruments.....	3345	691	160	64	96	100	33	13	14

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	Companies in target population	Companies selected for the sample			Companies with reported or imputed R&D expenditures ³		Companies that reported no R&D expenditures ⁴	Other companies ⁵
			Total	Noncertainties ¹	Certainties ²	Greater than or equal to \$5 million	Less than \$5 million		
Distribution by industry:									
Other computer and electronic products.....	334 (minus 3341–42, 3344–45)	155	107	41	66	12	24	48	23
Electrical equipment, appliances, and components.....	335	984	110	58	52	51	29	18	12
Transportation equipment.....	336	2,026	219	125	94	85	52	61	21
Motor vehicles, trailers, and parts.....	3361–63	1,387	137	82	55	50	36	38	13
Aerospace products and parts.....	3364	262	24	5	19	19	1	4	0
Other transportation equipment.....	336 (minus 3361–64)	377	58	38	20	16	15	19	8
Furniture and related products.....	337	1,582	180	118	62	10	60	98	12
Miscellaneous manufacturing.....	339	1,982	343	216	127	61	128	103	51
Medical equipment and supplies.....	3391	591	151	93	58	46	55	28	22
Other miscellaneous manufacturing.....	339 (minus 3391)	1,391	192	123	69	15	73	75	29
Other manufacturing.....	31–33 (minus 311–16, 321–27, 331–37, 339)	98	30	7	23	--	--	11	--
Small manufacturing companies ⁶	Fewer than 50 employees	141,085	1,414	1,411	3	1	90	1,094	229
Nonmanufacturing.....	21–23, 42, 44–81	1,726,417	20,088	18,492	1,596	918	685	15,568	2,916
Mining, extraction, and support activities.....	21	2,922	186	124	62	14	20	128	24
Utilities.....	22	554	66	30	36	9	26	23	8
Construction.....	23	78,882	2,056	1,895	161	6	15	1,777	258
Trade.....	42, 44, 45	146,524	3,041	2,946	95	94	54	2,515	378
Transportation and warehousing.....	48, 49	21,842	552	506	46	5	14	447	86

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	Companies in target population	Companies selected for the sample			Companies with reported or imputed R&D expenditures ³		Companies that reported no R&D expenditures ⁴	Other companies ⁵
			Total	Noncertainties ¹	Certainties ²	Greater than or equal to \$5 million	Less than \$5 million		
Distribution by industry:									
Information.....	51	12,381	746	495	251	192	66	360	128
Publishing.....	511	5,219	450	264	186	156	50	179	65
Newspaper, periodical, book, and database.....	5111	3,228	177	147	30	5	8	145	19
Software.....	5112	1,991	273	117	156	151	42	34	46
Broadcasting and telecommunications.....	513	3,516	130	98	32	12	3	88	27
Radio and television broadcasting.....	5131	1,628	34	33	1	1	0	29	4
Telecommunications.....	5133	1,577	73	51	22	10	3	43	17
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	311	23	14	9	1	0	16	6
Other information.....	51 (minus 511, 513)	3,646	166	133	33	24	13	93	36
Finance, insurance, and real estate.....	52, 53	38,687	872	819	53	33	15	727	97
Professional, scientific, and technical services.....	54	52,950	3,072	2,330	742	534	376	1,730	432
Architectural, engineering, and related services.....	5413	11,764	926	737	189	69	90	663	104
Computer systems design and related services.....	5415	7,231	846	608	238	167	164	328	187
Scientific R&D services.....	5417	1,472	476	213	263	287	97	45	47
Other professional, scientific, and technical services.....	54 (minus 5413, 5415, 5417)	32,483	824	772	52	11	25	694	94
Management of companies and enterprises.....	55	657	167	116	51	2	11	122	32
Health care services.....	621–23	44,579	1,026	972	54	7	25	877	117
Other nonmanufacturing	56, 61, 624, 71, 72, 81	195,628	2,724	2,684	40	17	23	2,182	502
Small nonmanufacturing companies ⁶	Fewer than 15 employees	1,130,811	5,580	5,575	5	5	40	4,682	853
Unclassified ⁷		8,727	89	88	1	--	--	--	

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	Companies in target population	Companies selected for the sample			Companies with reported or imputed R&D expenditures ³		Companies that reported no R&D expenditures ⁴	Other companies ⁵
			Total	Noncertainties ¹	Certainties ²	Greater than or equal to \$5 million	Less than \$5 million		
Distribution by size of company: [Number of employees]									
Total.....	(na)	1,912,456	25,002	21,975	3,027	1,888	1,695	17,741	3,678
5 to 24.....	(na)	1,507,221	11,547	11,522	25	13	220	--	--
25 to 49.....	(na)	220,303	3,992	3,927	65	46	168	--	--
50 to 99.....	(na)	103,055	2,683	2,500	183	134	224	--	--
100 to 249.....	(na)	53,624	2,272	1,923	349	281	285	--	--
250 to 499.....	(na)	14,620	1,251	874	377	240	227	--	--
500 to 999.....	(na)	6,659	986	582	404	222	219	--	--
1,000 to 4,999.....	(na)	5,374	1,439	502	937	525	275	--	--
5,000 to 9,999.....	(na)	752	356	58	298	189	44	--	--
10,000 to 24,999.....	(na)	555	296	49	247	130	27	--	--
25,000 or more.....	(na)	293	180	38	142	108	6	--	--

¹ Noncertainties are companies whose probability of selection is less than one. For more information, see "identifying certainty companies" in the technical notes in this section.

² Certainties are companies whose probability of selection is one. This includes companies whose 1999 R&D expenditures were equal to or greater than \$5 million as well as others included in the sample for analytical purposes ("analytical certainties"). For more information, see "identifying certainty companies" in the technical notes in this section.

³ For information about imputed R&D, see "Probability Proportionate to Size" in the technical notes in this section.

⁴ Includes companies that responded to the survey but did not indicate any information about R&D performance.

⁵ Includes companies that that did not respond to the survey or reported that they were out-of-scope, out-of-business, or had merged with another company (which may or may not have been selected for the survey, and/or may not be in the same industry).

⁶ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in this section.

⁷ Companies that were missing or had an incomplete North American Industrial Classification System (NAICS) code at the time of sampling were assigned to an "unclassified" industry category temporarily. If an "unclassified" company reported R&D expenditures, its primary industrial activity was investigated and a NAICS code was assigned during statistical processing.

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NOTES: The last four columns in this table account for all of the categories of companies selected for the sample. Companies that responded to the survey are distributed among three categories, those that reported or had imputed R&D greater than or equal to \$5 million, those that reported or had imputed R&D less than \$5 million, and those that had no reported or imputed R&D. Companies that did not respond to the survey, were found to be out-of-scope, out-of-business, or had merged with another company, are included in the last column. Consequently, the sum of the counts in the last four columns equals the counts for total number of "companies selected for the sample."

The total number of "companies selected for the sample" is larger than the "number of companies that received a questionnaire" in Table B-4 because some companies selected for the survey went out of business or were merged with other companies during the time between sample selection and survey mail-out, that is, the sample frame was updated before actual mail-out took place. For more information, see "frame creation" in the technical notes in this section.

KEY: (–) = Indicates data not collected.
(na) = Not applicable.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000